

Variable Message Signs

Building Blocks For Any Sign Application



Fully Modular



Two-Line Truck Mount

Glare-Free Visibility



Permanent Road-Side Sign

Wide Variety of Applications



Arrow Dynamic Sign(ADS)

Simplicity of Design



Speed Limit Sign

Versatility and Flexibility



Ramp Queue Sign

Strength and Durability



Truck-Mounted Attenuator

The BRICK® Modular Message Sign System

Build your message with the one-of-a-kind BRICK®.

For ramp metering, overhead bridges, permanent roadside locations, cantilever signal arms and every kind of vehicle mount, there's nothing more valuable than The BRICK by ADDCO. Its remarkable modular technology and versatility make it the most revolutionary sign product on the market today. The fully modular design of the BRICK accommodates virtually any size of sign across the widest variety of applications. BRICKs can be arranged vertically or horizontally to create any length and width of sign desired in just minutes.

The BRICK features a full-pixel matrix that provides glare-reduced visibility in all lighting conditions. Environmentally sealed to withstand extreme heat, moisture, vibration and shock, BRICKs are vandal-proof and conveniently programmable.

Let us help you design the perfect sign application. Or create your own with our exclusive, easy-to-use sign configuration software, BRICKBuilder™.



Required BRICK® Characteristics

Face Material:	UV-Inhibited polycarbonate with UV silk-screened mask
Body Material:	ABS thermoplastic
Length:	19.25 inches
Width:	13.75 inches
Height:	2 inches
Weight:	4.25 lbs.

The BRICK display module is available in two densities to meet the needs of different applications:

- ◆ **High density.** High-density display modules have 96 pixels consisting of 384 LEDs
- ◆ **Standard density.** Standard-density display modules have 35 pixels consisting of 140 LEDs

Characteristic	High Density	Standard Density
Pixel arrangement	8x12	5x7
Number of pixels	96	35
LEDs per pixel	4	4
Number of LEDs	384	140
LED spacing in pixel	0.5 inches	1.375 inches
Pixel spacing	1.625 inches	2.750 inches
LED type	592 NM amber	592 NM amber
Minimum character size	10.5 (5x7)	18 inches
Average 24-hour current draw per BRICK	11.5 Amps.	2.5 Amps.
Absolute maximum current draw per BRICK	4.8 Amps.	1.75 Amps.
Typical maximum current draw per BRICK	3.1 Amps.	0.7 Amps.
Nominal voltage	12 Vdc.	12 Vdc.
Minimum voltage	10.5 Vdc.	10.5 Vdc.
Maximum voltage	16.0 Vdc.	16.0 Vdc.



Bus Bar for Power and Communications

Material:	Aluminum with copper conductors
Length:	240 inches maximum; cut for shorter lengths
Width:	5 inches
Depth:	0.6 inches
Weight:	1.6 lbs. per running foot

Each changeable message sign using the BRICK modular message sign system can consist of one to 60 BRICKs. BRICKs contain rugged LEDs mounted inside an environmentally sealed case. These attach to a modular bus bar that provides power and signal connections. The entire configuration connects electronically to a master controller on the sign. Text and graphics messages are easily created with Windows-based software. Messages can be controlled onsite or remotely. Input devices include PCs, handheld controllers, cellular phones, and radar devices.

The BRICK® Modular Message Sign System

Contact your ADDCO sales representative today.

Protected by Patent number 5,914,698. Other U.S. and International patents pending.

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SKYLINE PRODUCTS, INC.

Traffic Systems

Traffic Systems

Dynamic Message Signs

Changeable Message Signs

LED Technology

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Dynamic Message Signs LED DISPLAYS



- High intensity amber AlInGaP LED technology provides excellent 24 hour readability
- Superior and extremely efficient ventilations system
- Walk in housing provides safe and easy access
- Lift face housing available
- Low power consumption
- 170 controller is standard
- Full matrix configuration available
- Lift out modules for fast replacement
- Weather tight aluminum construction
- Message selection by predetermined message library and online formatting
- Diagnostic verification of pixel status
- Onscreen message confirmation at central
- All aluminum construction with Kynar coated front face
- Custom sizes and applications are available

Skyline designs and manufactures the highest quality, most technically advanced, user-friendly, reliable and maintenance free LED DMS systems in the industry. In addition, Skyline provides the longest warranty and best on-going customer support. Skyline does all of this at a competitive price.

Skyline is an ISO 9001 certified company, committed to providing the highest quality DMS system available. Skyline is continuously improving its design and manufacturing procedures to ensure that Skyline remains the industry leader.



● PRODUCT GROUPS

Transit
Highway Signs
R-Tec
Commercial

● PRODUCT COMPONENTS

Reflective Disk
LED
Fiber Optic
LED and Fiber Optic Hybrids
Liquid Crystal Display
Curtain Signs



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HIGHWAY SIGNS

Vultron has been providing products to the highway market since 1985. Vultron's walk in cabinet design for overhead VMS signs is superior in the industry, as it allows for internal access to all sign components for ease of maintenance. This design virtually eliminates hazardous working conditions for the maintenance worker servicing the sign, traffic hazards of servicing the sign from the outside, and the need for lane closures.



Through ADDCO Corporation, an exclusive distributor based in Minneapolis, MN, over 2,000 portable trailer signs are in use by transportation departments nationwide. Overhead sign installations are also in place nationwide, as well as in the United Kingdom. The technologies used in these signs include reflective disk, multi and mono color LED, fiber optic and LED-Dot.

For more information on highway signs, contact the Vultron sales department at (248) 853-2200 or [email us](#) now.



Dynamic Message Systems

Scotchlite™ LED-1 Pixel

3M™ Scotchlite™ LED-1 Pixel

Pixels with fluorescent reflective* material and high output InGaAlP light emitting diodes (LEDs). The LEDs are embedded in the fluorescent reflective panel for performance 24 hours a day. The reflective panel opens during operation and closes when the pixel is not in use.

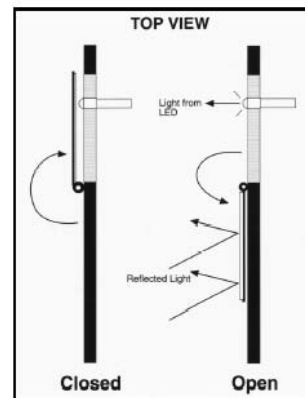
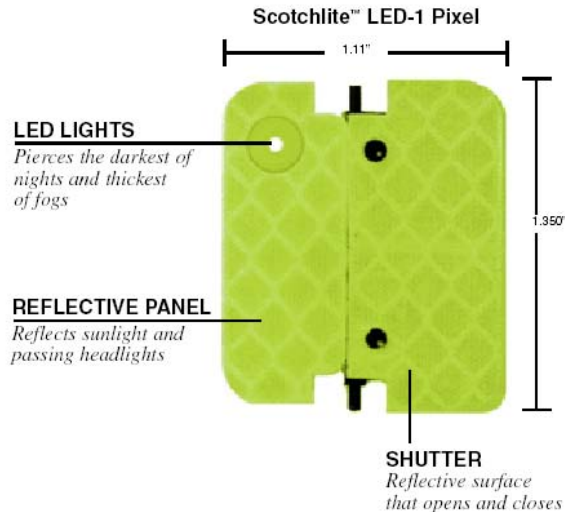
Scotchlite™ LED-1 pixels contain a single high output InGaAlP LED providing characters, graphics and safety symbols on dynamic message systems in accordance with MUTCD design and principles.

Features:

- Message signs can be custom configured to meet any specification
- Retroreflective - uses UV stable 3M™ Scotchlite™ Diamond Grade™ Fluorescent Reflective Sheeting
- Ascribes to MUTCD color principles
- InGaAlP LED illumination
- Full matrix capability - can display various sized characters, graphics, arrows, and safety symbols

Display Specifications:

- Pixel color: Fluorescent orange or fluorescent yellow green
- Pixel size: 1.11 inches x 1.350 inches
- Modular design
- Module: 16 pixels wide by 8 pixels high
- Extruded aluminum cabinet
- Non-glare polycarbonate face with UV inhibitor



*Retroreflection occurs when surfaces return a portion of the directed light to its source. This is why retroreflective materials appear brightest to observers located near the light source - a driver and the vehicle headlights, for example. This is true for drivers at almost any viewing angle, which makes retroreflective surfaces excellent for night visibility.

(continued on back)

- Enclosure: Secured National Electrical Manufacturers Association (NEMA) 3R equivalent
- Automatic “fail safe” default message capability- protects agency in the event of a continuous power failure
- Modes of display operations - reflective/LED and reflective only (LEDs are switched and shuttered vs. on 24 hours)
- Pixel color guaranteed not to fade for 10 years
- Efficient power consumption
- Standard interchangeable parts, no special tools required
- Photo cell brightness control
- Multiple levels of illumination
- Pulse width modulation illumination control
- ETL approved

Software Control:

- Windows™ 2000/NT/98/95
- Programmable default message protects the agency in the event of a power failure
- 32 pre-programmed messages
- 125 user messages
- NTCIP compliant

Other Options:

- Local control cabinet
- Notebook PC
- Increased display size allows any type of message
- Remote diagnostics
- Radar speed display
- Cellular
- Radio frequency
- Fiber optics
- Phone line
- CDPD (Cellular Digital Packet Data)
- Contrast shield
- Custom graphical user interface with site map on software



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